

SAMPLING TRIP REPORT

SITE NAME: West Mahopac Groundwater Contamination Site
DCN: RST-02-F-00077
TDD #: 02-00-08-0030

EPA ID: LC

SAMPLING DATES: Wednesday, October 11, 2000 and
Monday, October 23, 2000

1. **SITE LOCATION:** West Mahopac Groundwater Contamination Site
West Mahopac, Putnam County, New York
Residential homes on Secor Road & Wood Street
See Site Location Map (Figure 1).
2. **SAMPLE LOCATION:** Tapwater samples were collected at the following residences
(See Figure 2):

<u>Homeowner/ Resident</u>	<u>Address</u>
Ralph Gardineer	250 Wood Street
Alan Woermann Sr.	230 Wood Street
Jerry Flory	240 Wood Street
Hassan Kemet	246 Wood Street
Matthew Fairweather	247 Wood Street
Ludwig Kriechhammer	5 Secor Road



3. SAMPLE DESCRIPTIONS:

SAMPLE NUMBER	SAMPLE DATE / TIME	HOME ADDRESS	TYPE	ANALYSIS
250WS-IF	10/11/00 1050	250 Wood Street	Influent	VOA + MTBE, SEMI-VOA
250WS-CF	10/11/00 1055	250 Wood Street	Carbon Filter	VOA + MTBE, SEMI-VOA
250WS-EF	10/11/00 1100	250 Wood Street	Tapwater	VOA + MTBE, SEMI-VOA
240WS-IF	10/11/00 1130	240 Wood Street	Influent	VOA + MTBE, SEMI-VOA
240WS-CF	10/11/00 1135	240 Wood Street	Carbon Filter	VOA + MTBE, SEMI-VOA
240WS-EF	10/11/00 1140	240 Wood Street	Tapwater	VOA + MTBE, SEMI-VOA
420WS-EF Duplicate of 240WS-EF	10/11/00 1150	420 Wood Street	Duplicate of 240WS-EF Tapwater	VOA + MTBE, SEMI-VOA
246WS-IF	10/11/00 1225	246 Wood Street	Influent	VOA + MTBE, SEMI-VOA
246WS-CF	10/11/00 1230	246 Wood Street	Carbon Filter	VOA + MTBE, SEMI-VOA
246WS-EF	10/11/00 1235	246 Wood Street	Tapwater	VOA + MTBE, SEMI-VOA
005SR-IF (+ MS/MSD)	10/11/00 1355	5 Secor Road	Influent	VOA + MTBE, SEMI-VOA
005SR-CF	10/11/00 1400	5 Secor Road	Carbon Filter	VOA + MTBE, SEMI-VOA
005SR-EF	10/11/00 1405	5 Secor Road	Tapwater	VOA + MTBE, SEMI-VOA
247WS-IF	10/11/00 1450	247 Wood Street	Influent	VOA + MTBE, SEMI-VOA

SAMPLE NUMBER	SAMPLE DATE / TIME	HOME ADDRESS	SAMPLE TYPE	ANALYSIS
247WS-CF	10/11/00 1455	247 Wood Street	Carbon Filter	VOA + MTBE, SEMI-VOA
247WS-EF	10/11/00 1500	247 Wood Street	Tapwater	VOA + MTBE, SEMI-VOA
TB-01	10/11/00 0700	(Trip Blank-01)	QA/QC DI Water	VOA
230WS-IF	10/23/00 1320	230 Wood Street	Influent	VOA + MTBE, SEMI-VOA
230WS-CF	10/23/00 1325	230 Wood Street	Carbon Filter	VOA + MTBE, SEMI-VOA
230WS-EF	10/23/00 1330	230 Wood Street	Tapwater	VOA + MTBE, SEMI-VOA
230WS-DF	10/23/00 1340	230 Wood Street	Duplicate of 230WS-EF Tapwater	VOA + MTBE, SEMI-VOA
TB-01	10/23/00 0800	(Trip Blank-01)	QA/QC DI Water	VOA

* Additional volume was given to the laboratory for MS/MSD samples.

4. LABORATORY RECEIVING SAMPLES:

<u>Sample Types</u>	<u>Name and Address of Lab</u>	<u>Parameters</u>
Drinking Water	Mitkem Corporation	VOA + MTBE,
-Influent Water	175 Metro Center	Semi-VOA
-Between Carbon Filters	Warwick, R.I. 02886	"
-Effluent Water (Tapwater)	Phone (410) 732-3400	"
	Contact: Ben Dodge	

5. SAMPLE DISPATCH DATA:

Seventeen water samples were sent to Mitkem Corporation for analysis on October 11, 2000 (see Attachment 1- Chain of Custody). Samples were shipped via Fedex under Airbill No. 819353860400.

Five water samples were sent to Mitkem Corporation for analysis on October 23, 2000 (see Attachment 1- Chain of Custody). Samples were shipped via Fedex under Airbill No. 817987064108.

6. ON-SITE PERSONNEL:

<u>Name</u>	<u>Affiliation</u>	<u>Responsibilities On-Site</u>
Michael Garibaldi	RST Region II	Project Manager, Field Coordinator
Charles Metzger	RST Region II	Sampling, Documentation, Shipping
Rana Salzhauer	RST Region II	Sampling, Documentation, Shipping

7. WEATHER CONDITIONS:

Prevailing weather conditions on October 11, 2000 were clear skies, with temperatures ranging from 60 to 65°F with light winds. Prevailing weather conditions on October 23, 2000 were clear skies, with temperatures ranging from 65 to 70° F with light winds.

8. ADDITIONAL COMMENTS:

A total of twenty (20) drinking water samples were collected from six (6) residential homes. All residences contained previously installed groundwater filtration systems. The water filtration system of each residence was allowed to purge for fifteen (15) minutes prior to the collection of water samples.

Three (3) water samples were collected from the water filtration system for each residence. An influent sample was collected from a sample port before the carbon filters, a water sample was collected from a sample port located between the two carbon filters, and one effluent tapwater sample was collected at the kitchen sink faucet. All tapwater samples will be analyzed for volatiles+ Methyl Tert Butyl Ether (MTBE) and semi-volatile organic compounds.

The analytical turnaround time requested by the EPA OSC for the verbal results for this sampling event was seven days for the VOA samples, two weeks for the BNA samples,

and three weeks for the written results.

Three (3) quality control/quality assurance samples were taken for the October 11, 2000 sampling event. One (1) duplicate effluent tapwater sample was collected for 240 Wood Street of the carbon filter sample. Extra volume for a matrix spike/matrix spike duplicate (MS/MSD) analysis was collected at 5 Secor Road of the influent sample. One trip blank was taken prior to mobilization on October 11.

Three (3) quality control/quality assurance samples were taken for the October 23, 2000 sampling event. One (1) duplicate effluent tapwater sample was collected for 230 Wood Street of the effluent/tapwater sample. Extra volume for matrix spike/matrix spike duplicate (MS/MSD) analysis was collected at 230 Wood Street of the carbon filter sample. One trip blank was taken prior to mobilization on October 23, 2000.

Data validation will be performed by RST personnel. Final data results will be forwarded to the EPA-OSC following completion of data validation. Sample results will be compared to results obtained from the previous sampling event to determine the effectiveness of the residential groundwater filtration systems.

9. Report Prepared by: Michael Garibaldi Date: 10/27/00
Michael Garibaldi - RST

10. Report Approved by: Christoph Stannik Date: 10/27/00
Christoph Stannik - RST
Group Leader

FIGURE 1
SITE LOCATION MAP

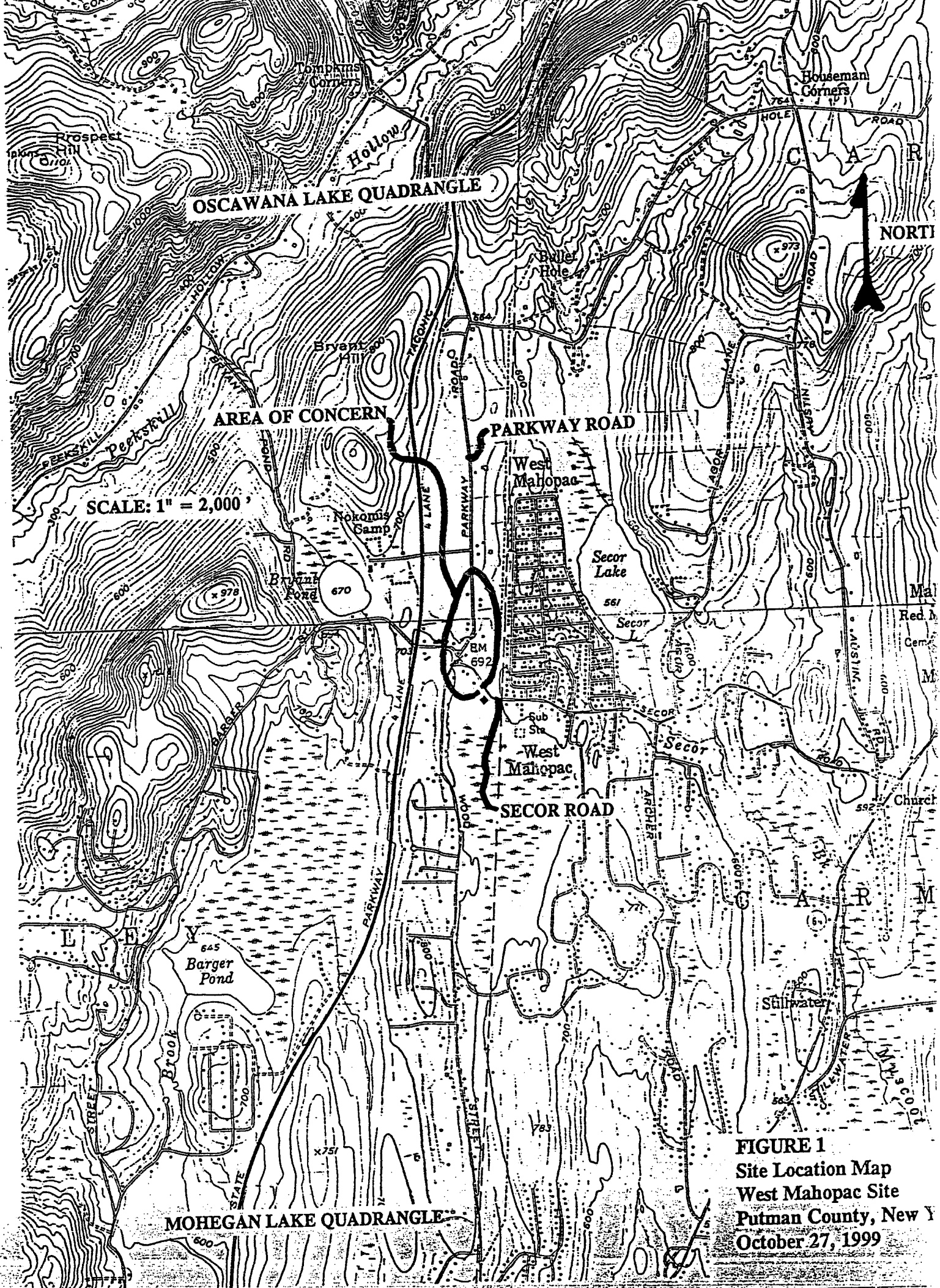


FIGURE 1
Site Location Map
West Mahopac Site
Putnam County, New Y
October 27, 1999

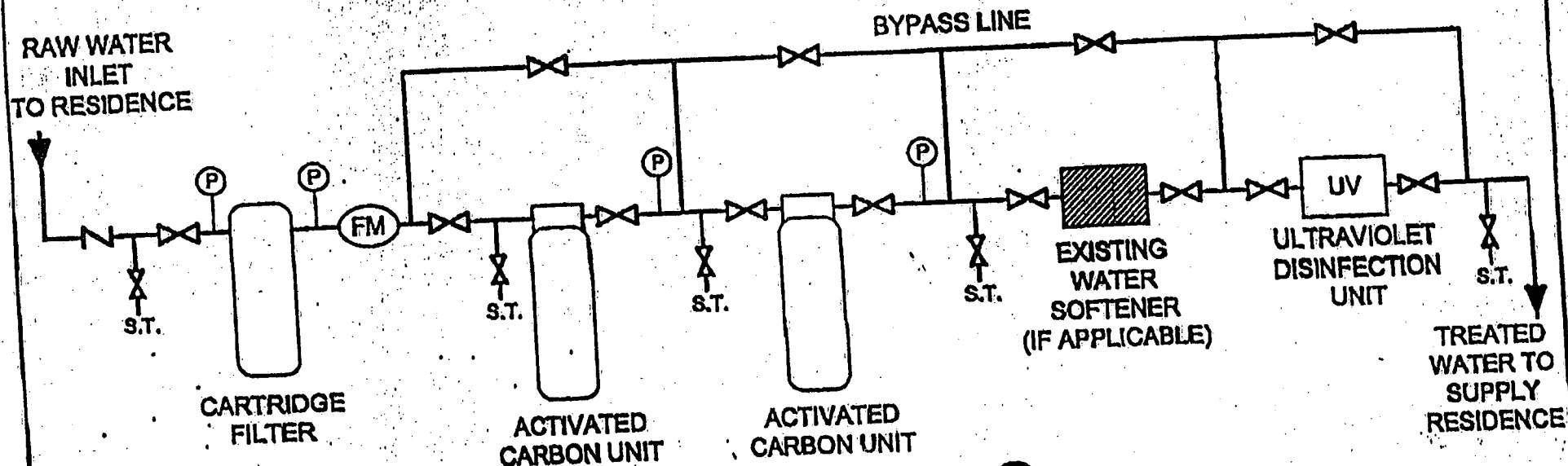
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FIGURE - 2
SAMPLE LOCATION MAP






DWG: W_Mahopac_d1

DATE: 10/1/99

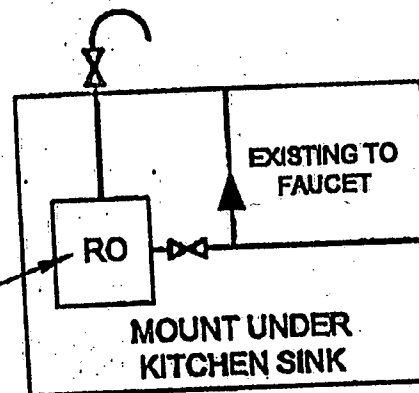
TYPICAL RESIDENTIAL DRINKING WATER TREATMENT SCHEMATIC



LEGEND

-  CHECK VALVE
-  BALL VALVE
-  SAMPLE TAP
-  PRESSURE GAUGE
-  FLOW METER

REVERSE OSMOSIS UNIT



EARTH TECH

WEST MAHOPAC DRINKING WATER SITE
 WEST MAHOPAC, NY USEPA REGION II
 DESIGNED BY: DONALD MAYER, P.E.
 DRAWN BY: BRIAN HILL
 10/01/99

37853.01

MAR 03 '00 02:05PM

ATTACHMENT 1
CHAIN OF CUSTODY

RFP No.:
1068

PO No.:
0018332

CHAIN OF CUSTODY RECORD



REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify)

Preservative Box No.:
1. HCl
2. HN03
3. Na2SO4
4. H2SO4
5. Other (Specify)
6. Ice Only
N. Not Preserved
* See Comments

page 1 of 2

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS						RCRA ANALYSIS			OTHER
						VOA MT BE	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC	
250WS-IF	10/11/00 1050	2	L	G	6	X	X								+ MTBE
250WS-CF	1055	2	L			X	X								
250WS-EF	1100	2	L			X	X								
240WS-IF	1130	2	L			X	X								
240WS-IF	1135	2	L			X	X								
240WS-EF	1140	2	L			X	X								
420WS-EF	1150	2	L			X	X								
246WS-IF	1225	2	L			X	X								
246WS-CF	1230	2	L			X	X								
246WS-EF	1235	2	L			X	X								
005SR-IF	1355	2	L			X	X								ms/msd

Comments: VOA samples are not preserved; analyze within 7-days using method 524.2

Person Assuming Responsibility for Sample: Mitkem Corporation 175 Metro Ctr. Blvd Warwick, RI 02886				Attn: Ben Dodge ph: 401 732-3400		Time Date (MM/DD/YY)
Sample Number All	Relinquished By: <i>Michael Sumbaly</i>	Time 1800	Date 10/11/00	Received By: Fedex Airbill # B9353860400		Reason for Change of Custody Shipment
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Samiera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

RFP No.:

1068

PO No.:

0018332

Page 2 of 2

CHAIN OF CUSTODY RECORD



REMOVAL SUPPORT TEAM

EPA CONTRACT 68-W-00-113

Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:

Preservative Box No.:

1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify)

1. HCl
2. HN03
3. Na2SO4
4. H2SO4
5. Other (Specify)
6. Ice Only
7. Not Preserved
8. See Comments

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II RST

Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703

Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS						RCRA ANALYSIS			OTHER
						VOA	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC	
005SR-CF	10/11/00 1400	2	L	G	6	X	X								+ MTBE
005SR-EF	1405	2	L			X	X								
247WS-IF	1450	2	L			X	X								
247WS-CF	1455	2	L			X	X								
247WS-EF	1500	2	L			X	X								
TB-01	10/11/00 -	8	-	G		X									Trip Blank-01

Comments: VOA samples are not preserved; analyze within 7-days following method 524.2

Person Assuming Responsibility for Sample: Mitkam Corporation 175 Metro Ctr. Blvd. Warwick, RI 02886					Attn: Ben Dodge ph: 401 732-3400		Time Date (MM/DD/YY)	
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody		
A11	Michael Sumbaly	1800	10/11/00	Fedex Airbill # 819353860400		Shipment		
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody		
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody		

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

RFP No.:
1068

PO No.:
00/8332

CHAIN OF CUSTODY RECORD



REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to:

Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS						RCRA ANALYSIS			OTHER
						VOA + MTBE	BNA	PEST	PCBs	TAL	CN	IGN	COR	REAC	
230WS-IF	10-23-00/1320	2	L	G	6	X	X								+ MTBE
230WS-CF	10-23-00/1325	2	L	G	6	X	X								+ MS/MSD
230WS-EF	10-23-00/1330	2	L	G	6	X	X								
230WS-DF	10-23-00/1340	2	L	G	6	X	X								
TB-01	10-23-00/-	8	-	G	6	X	MS (R)								Trip ✓ Blank

Comments: VOA samples are not preserved; analyze within 7-days following Method 824.2

Person Assuming Responsibility for Sample:				Mitkem Corporation 175 Metro Ctr. Blvd. Attn: Ben Dodge phone: 401 732-3400 Warwick, RI 02886		Time Date (MM/DD/YY)	
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody	
AI	Michael Garibaldi	700	10/23/00	Fedex Airbill # 817987064108			
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody	
AI	Fedex Airbill # 817987064108	700	10/23/00				
Sample Number	Relinquished By:	Time	Date	Received By:		Reason for Change of Custody	

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

In Association with Resource Applications, Inc., R.E. Samiera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

ATTACHMENT 2
SHIPPING AIRBILLS

FedEx USA Airbill FedEx Tracking Number 819353860400

1 From Please print and press hard.

Date 10/11/00 Sender's FedEx Account Number 1244-8646-7
Sender's Name Mike Garibaldi Phone 732.225-6116

Company Roy F. Weston, Inc.
Address 1090 King Georges Post Rd. Dept./Floor/Suite/Room
City Edison State NJ ZIP 08837

2 Your Internal Billing Reference OPTIONAL

3 To Recipient's Name Lab Receiving Phone (401) 732-3400

Company Mitkem Corporation
Address 175 Metro Center Blvd. Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

To "HOLD" at FedEx location, print FedEx address here.
City Warwick State R.I ZIP 02886

Questions? Call 1-800-Go-FedEx® (800-463-3339)
Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.



4a Express Package Service

☒ FedEx Priority Overnight Next business morning
☐ FedEx Standard Overnight Next business afternoon
☐ FedEx First Overnight Earliest next business morning delivery to select locations
☐ FedEx 2Day* Second business day
☐ FedEx Express Saver* Third business day
*Declared value limit \$500

4b Express Freight Service

☐ FedEx 1Day Freight* Next business day
☐ FedEx 2Day Freight Second business day
☐ FedEx 3Day Freight Third business day
*Call for Confirmation

5 Packaging

☐ FedEx Letter* ☐ FedEx Pak* ☒ Other/Pkg. Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

☐ Saturday Delivery Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
☐ Sunday Delivery Available for FedEx Priority Overnight to select ZIP codes
☐ HOLD Weekday at FedEx Location Not available with FedEx First Overnight
☐ HOLD Saturday at FedEx Location Available for FedEx Priority Overnight and FedEx 2Day to select locations
Does this shipment contain dangerous goods?
One box must be checked.
☒ No ☐ Yes As per attached Shipper's Declaration ☐ Yes Shipper's Declaration not required
Dangerous Goods cannot be shipped in FedEx packaging.
☐ Dry Ice Dry Ice, 6, UN 1845 x kg
☐ Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.
☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

FedEx Acct. No. Exp. Date
Total Packages 2 Total Weight 118 Total Declared Value* \$.00
*Our liability is limited to \$100 unless you declare a higher value. See back for details. FedEx Use Only

8 Release Signature

Sign to authorize delivery without obtaining signature.
Mike Garibaldi
By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

360